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(54) WIRE ROD OF SMALL DIAMETER HAVING
SUPERIOR BENDABILITY

(57) Abstract:

PURPOSE: To provide superior bendability to a wire rod and to enable the coiling of the wire rod and high-speed continuous automatic welding for hard facing by specifying the average grain size of a solid soln. of Co and the volume percentage of a liq. phase part having a specified void volume.

CONSTITUTION: Powder of a Co alloy such as 'Stellite(R)' or 'Tribaloy(R)' is compacted and sintered to obtain a wire rod. In this wire rod, a part of a solid soln. of Co having $\leq 45\mu\text{m}$ average grain size is enclosed by a liq. phase part contg. precipitated carbides of Cr, Mo, W, etc. The amt. of the liq. phase part is $\leq 10\text{vol.}\%$ and the part has $\leq 10\%$ void volume. By this structure, the wire rod has satisfactory bendability.

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